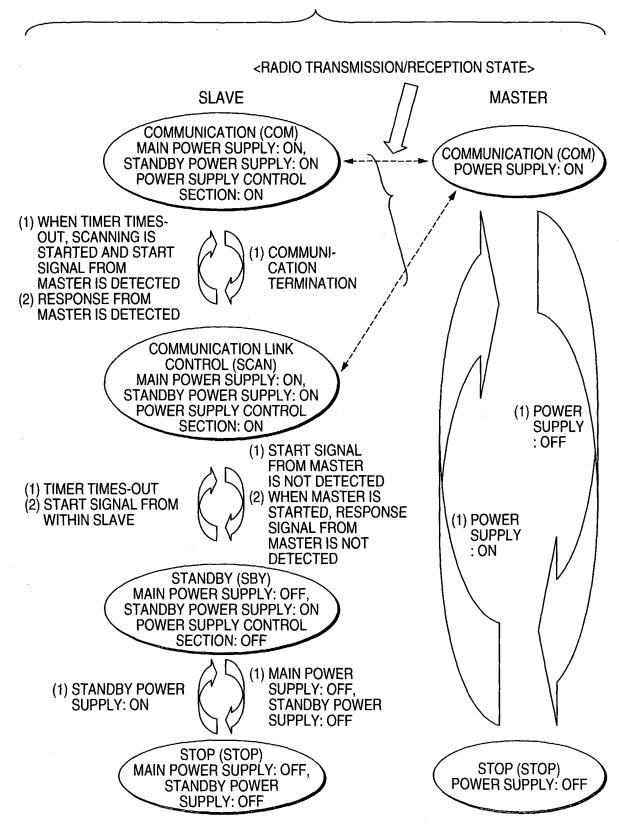
COMMUNICATION CONTROL METHOD Invent r(s): Kenji KANAYAMA et al. Docket No.: 056203-0107 1/13 MASTER CONTROLLER 위 MASTER -24 POWER SUPPLY SECTION (COMMERCIAL POWER SUPPLY بُ RADIO COMMUNICATION SECTION 23 MEMORY COMMUNI-PROTOCO CATION CPU 12b 12a ट्ट RADIO COMMUNICATION SECTION COMMUNI-CATION PROTOCOL MEMORY 5 SENSOR (LOW POWER CONSUMPTION) -37 CPU SENSOR I/F 35 POWER SUPPLY CONTROL SECTION SLAVE ဗ္ဟ TIMER 34 -34a 34b STANDBY POWER SUPPLY BATTERY UNIT MAIN POWER SUPPLY

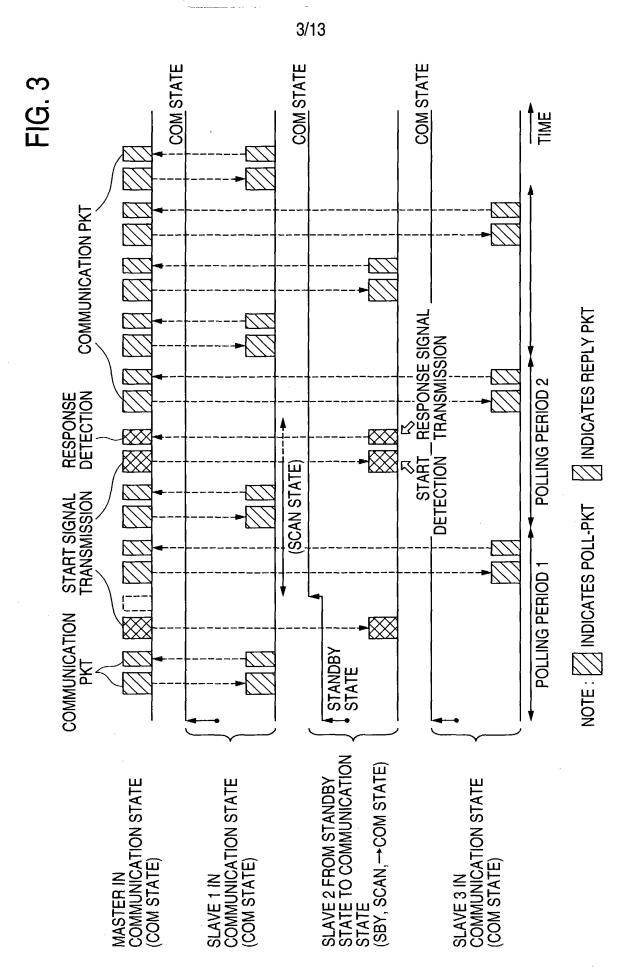
Title: COMMUNICATION SYSTEM, COMMUNICATION APPARATUS, AND

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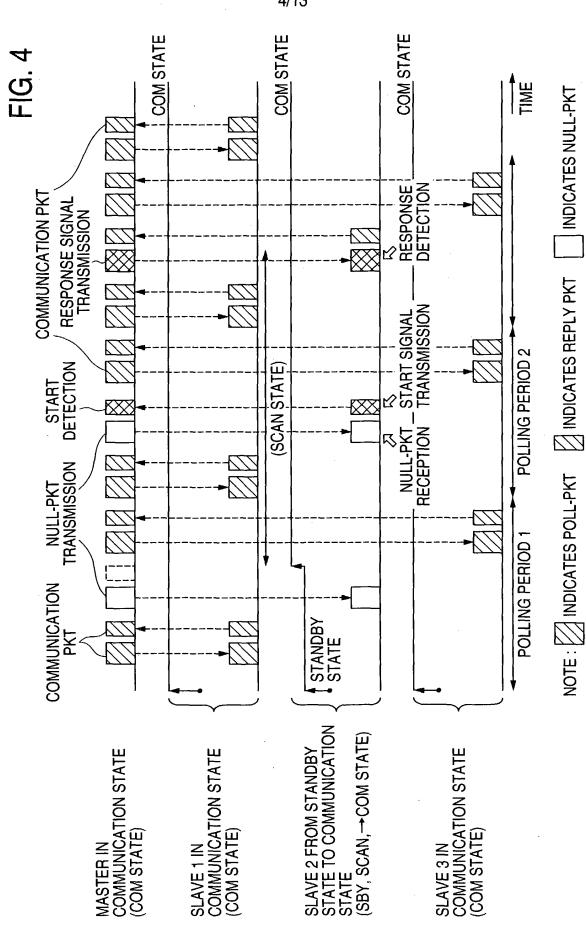
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FIG. 2

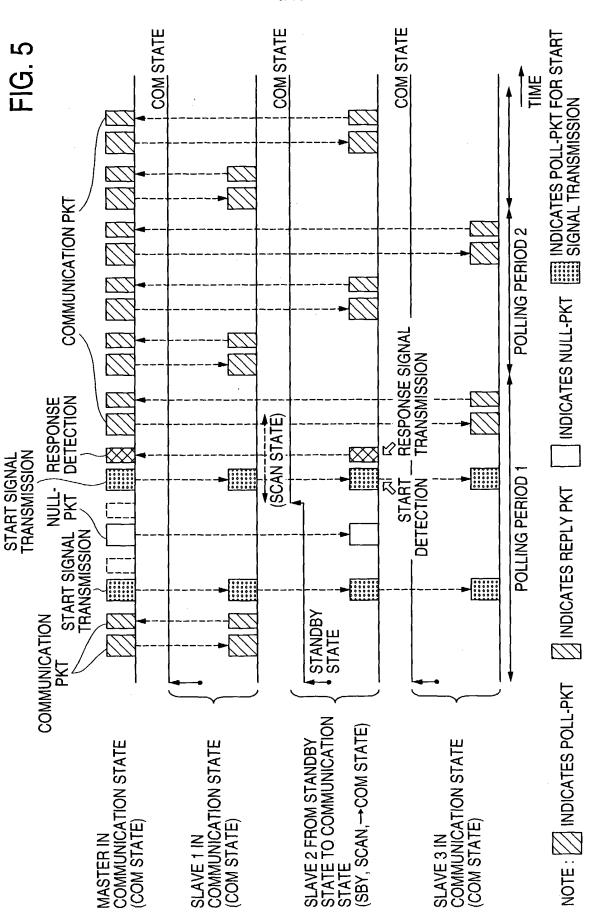




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FIG. 6A

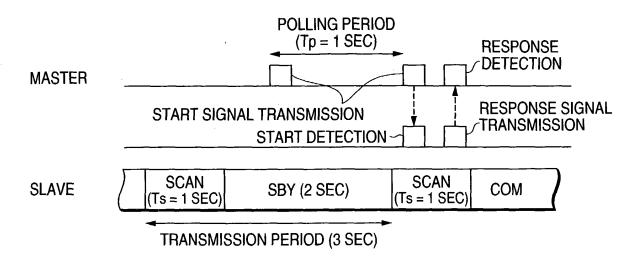
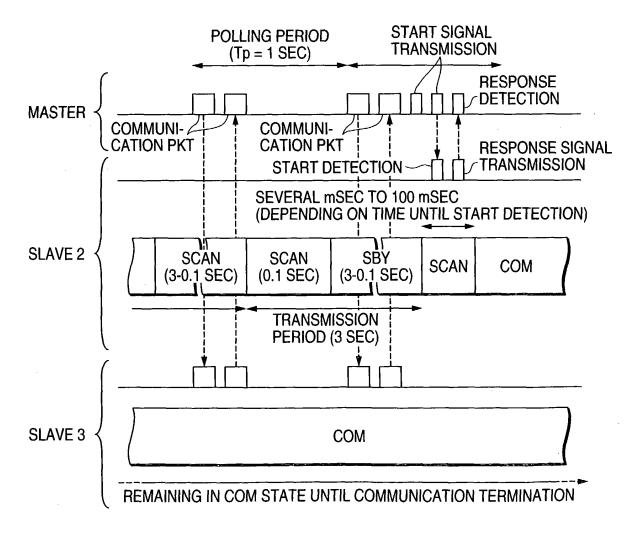
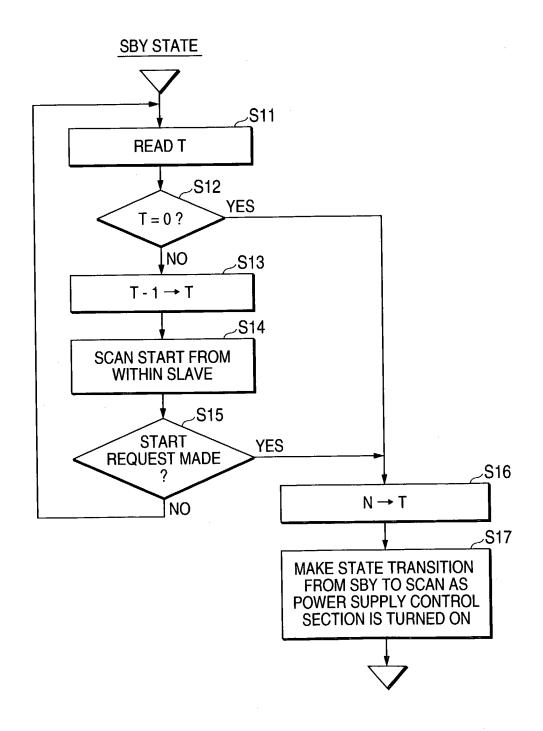


FIG. 6B



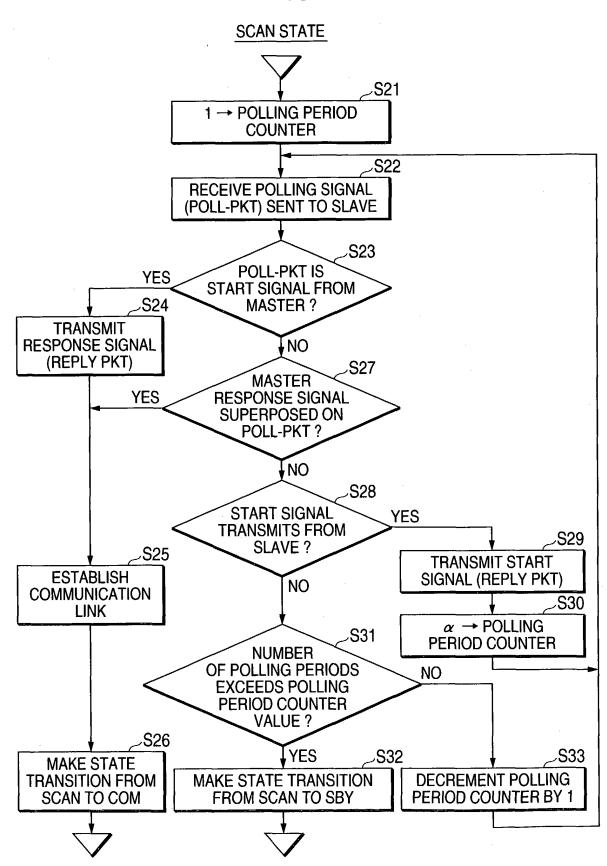
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FIG. 7



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FIG. 8



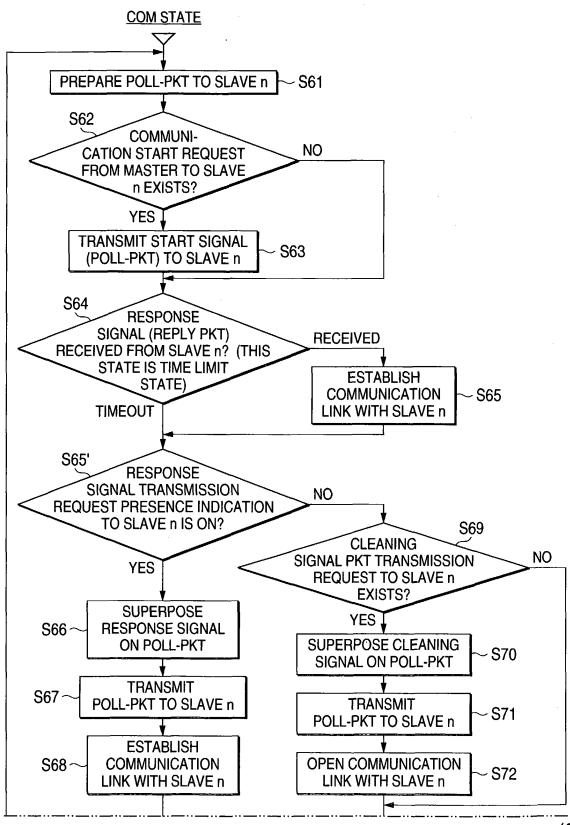
COMMUNICATION CONTROL METHOD Inventor(s): Kenji KANAYAMA et al. Docket N .: 056203-0107 9/13 FIG. 9 HIGH-LEVEL PROTOCOL COMMUNI-CATION INTERFACE SECTION WITH HIGH-LEVEL PROTOCOL MAKE STATE TRANSITION FROM COM TO SCAN SEND COMMUNICATION PKT (REPLY PKT) TO POLL-PKT AND TRANSFER COMMUNICATION FROM HIGH-LEVEL PROTOCOL TO MASTER) MASTER (TRANSMIT COMMUNICATION PKT TAKE OUT COMMUNICATION PKT FROM S44 **S**47 PKT TO HIGH-LEVEL PROTOCOL YES YES TRANSMITTED FROM HIGH-LEVEL PROTOCOL READ COMMUNICATION PKT TO BE **S**43 PKT TO BE TRANSMITTED EXISTS PKT SUPERPOSED ON POLL-PKT SEND NULL-PKT (REPLY PKT) COMMUNICATION COMMUNICATION YES ~ S41 2 9 YES NDICATION FROM HIGH-LEVEL PROTOCOL READ COMMUNICATION TERMINATION RECEIVE POLLING SIGNAL (POLL-PKT) **S45 S**46 END OF COMMUNICATIONS? S48 ~ DIRECTED TO SLAVE? COM STATE POLL-PKT 2 9 **S**42 **S**49 **S**20

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FIG. 10



(CONT.)

Title: COMMUNICATION SYSTEM, COMMUNICATION APPARATUS, AND COMMUNICATION CONTROL METHOD Invent r(s): Kenji KANAYAMA et al. Docket No.: 056203-0107 11/13 (FIG. 10 CONTINUED) **S73** COMMUNICATION NO PKT TRANSMISSION REQUEST TO SLAVE n EXISTS? INTERFACE SECTION WITH YES (HIGH-LEVEL PROTOCOL SUPERPOSE COMMUNICATION S74 -PKT ON POLL-PKT S75 -TRANSMIT POLL-PKT TO SLAVE n **REPLY PKT** RECEIVED RECEIVED FROM SLAVE n? (THIS STATE IS TIME LIMIT **S78** STATE) REPLY NO PKT IS CLEARING SIGNAL COMMUNI-**TIMEOUT** CATION HIGH-LEVEL YES [**PROTOCOL OPEN COMMUNICATION** S79 -LINK WITH SLAVE n **S80 REPLY PKT** NO IS COMMUNICATION PKT YES TAKE OUT COMMUNICATION PKT (TRANSFER COMMUNICATION S81 -PKT TO HIGH-LEVEL PROTOCOL) S82 NO REPLY PKT IS START SIGNAL? YES, SET RESPONSE SIGNAL TRANSMISSION REQUEST S83 PRESENCE INDICATION TO SLAVE n TO ON n + 1 -- n AND POLL SLAVE n (IF n EXCEEDS NUMBER OF - S77 SLAVES TO BE POLLED, m, SET 0) **END** YES OF POLLING OF ALL SLAVES IN PEDIOD? WAIT FOR START UNTIL NEXT

POLLING PERIOD OF SLAVE n

S85

S76

S84

NO

FIG 11

